Abrolhos Sub-Volcanic Structures, Assessment Unit 60340103 Assessment Results Summary

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

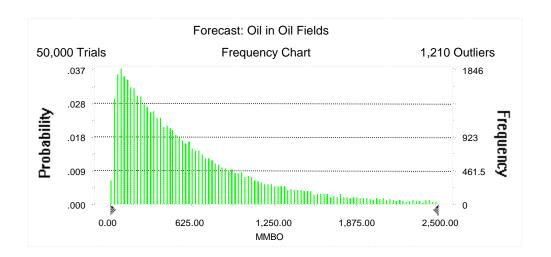
Field	MFS	Undiscovered Resources							es					Largest Undiscovered Field				
Field Type		S Prob.	b. Oil (MMBO)			Gas (BCFG)			NGL (MMBNGL)			(MMBO or BCFG)						
. 7 -		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	10		0	252	1,690	468	0	636	4,474	1,214	0	37	271	73	30	184	1,157	331
Gas Fields		0.72			,		0	4,692	23,873	,		198	1,081	323	380	2,291	10,795	3,430
Total		0.72	0	252	1,690	468	0	5,328	28,347	8,545	0	235	1,352	396				

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 2,500.00 MMBO Entire range is from 10.12 to 6,227.44 MMBO After 50,000 trials, the standard error of the mean is 2.92

Statistics:	<u>Value</u>
Trials	50000
Mean	653.78
Median	455.76
Mode	
Standard Deviation	652.60
Variance	425,889.28
Skewness	2.24
Kurtosis	10.13
Coefficient of Variability	1.00
Range Minimum	10.12
Range Maximum	6,227.44
Range Width	6,217.32
Mean Standard Error	2.92



Forecast: Oil in Oil Fields (cont'd)

Percentiles:

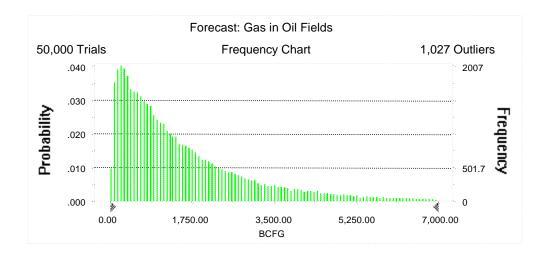
<u>Percentile</u>	MMBO
100%	10.12
95%	60.53
90%	94.34
85%	130.43
80%	167.78
75%	208.04
70%	249.95
65%	296.38
60%	345.13
55%	398.15
50%	455.76
45%	518.68
40%	589.25
35%	666.56
30%	760.30
25%	869.93
20%	1,007.98
15%	1,186.50
10%	1,453.66
5%	1,942.31
0%	6,227.44

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 7,000.00 BCFG Entire range is from 17.22 to 20,551.43 BCFG After 50,000 trials, the standard error of the mean is 7.88

Statistics:	<u>Value</u>
Trials	50000
Mean	1,697.47
Median	1,145.97
Mode	
Standard Deviation	1,762.06
Variance	3,104,866.10
Skewness	2.46
Kurtosis	12.12
Coefficient of Variability	1.04
Range Minimum	17.22
Range Maximum	20,551.43
Range Width	20,534.22
Mean Standard Error	7.88



Forecast: Gas in Oil Fields (cont'd)

Percentiles:

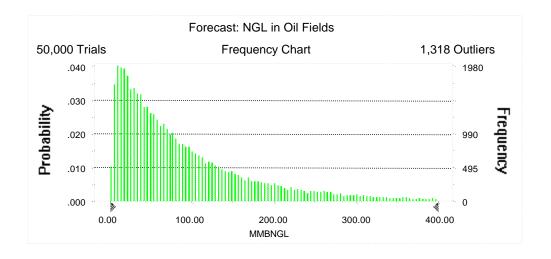
<u>Percentile</u>		BCFG
100%		17.22
95%		149.61
90%		236.82
85%		324.91
80%		417.78
75%		522.10
70%		631.41
65%		744.45
60%		867.11
55%		999.46
50%		1,145.97
45%		1,314.31
40%		1,499.43
35%		1,708.63
30%		1,947.45
25%		2,238.57
20%		2,607.86
15%		3,081.80
10%		3,819.38
5%		5,122.47
0%	2	0,551.43

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 400.00 MMBNGL Entire range is from 0.58 to 1,503.19 MMBNGL After 50,000 trials, the standard error of the mean is 0.49

Statistics:	<u>Value</u>
Trials	50000
Mean	102.11
Median	67.58
Mode	
Standard Deviation	110.38
Variance	12,183.26
Skewness	2.69
Kurtosis	14.28
Coefficient of Variability	1.08
Range Minimum	0.58
Range Maximum	1,503.19
Range Width	1,502.62
Mean Standard Error	0.49



Forecast: NGL in Oil Fields (cont'd)

Percentiles:

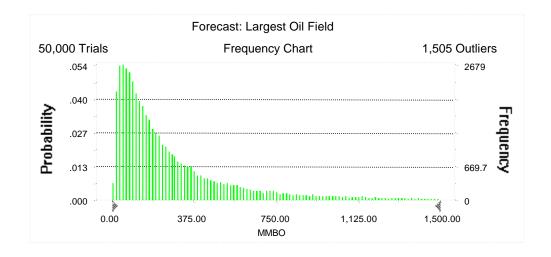
Percentile	MMBNGL
100%	0.58
95%	8.62
90%	13.64
85%	18.82
80%	24.15
75%	30.23
70%	36.47
65%	43.21
60%	50.65
55%	58.66
50%	67.58
45%	77.40
40%	88.32
35%	100.64
30%	115.24
25%	132.87
20%	155.46
15%	186.18
10%	231.34
5%	312.80
0%	1,503.19

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 1,500.00 MMBO Entire range is from 10.12 to 3,498.78 MMBO After 50,000 trials, the standard error of the mean is 1.93

Statistics:	<u>Value</u>
Trials	50000
Mean	331.32
Median	184.47
Mode	
Standard Deviation	431.51
Variance	186,197.68
Skewness	3.22
Kurtosis	16.36
Coefficient of Variability	1.30
Range Minimum	10.12
Range Maximum	3,498.78
Range Width	3,488.66
Mean Standard Error	1.93



Forecast: Largest Oil Field (cont'd)

Percentiles:

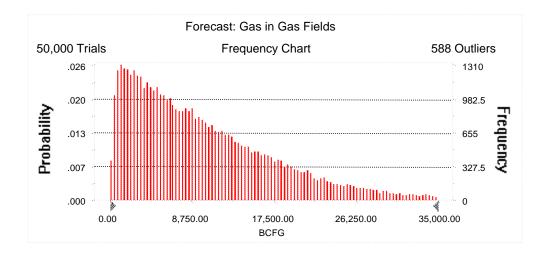
<u>Percentile</u>	MMBO
100%	10.12
95%	30.02
90%	44.22
85%	57.95
80%	72.14
75%	86.97
70%	102.72
65%	120.26
60%	139.55
55%	160.44
50%	184.47
45%	211.87
40%	244.00
35%	282.52
30%	329.07
25%	386.48
20%	468.57
15%	580.71
10%	767.30
5%	1,157.32
0%	3,498.78

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 35,000.00 BCFG Entire range is from 61.91 to 71,217.75 BCFG After 50,000 trials, the standard error of the mean is 36.49

Statistics:	<u>Value</u>
Trials	50000
Mean	10,195.09
Median	8,253.72
Mode	
Standard Deviation	8,159.43
Variance	66,576,242.65
Skewness	1.29
Kurtosis	5.14
Coefficient of Variability	0.80
Range Minimum	61.91
Range Maximum	71,217.75
Range Width	71,155.84
Mean Standard Error	36.49



Forecast: Gas in Gas Fields (cont'd)

Percentiles:

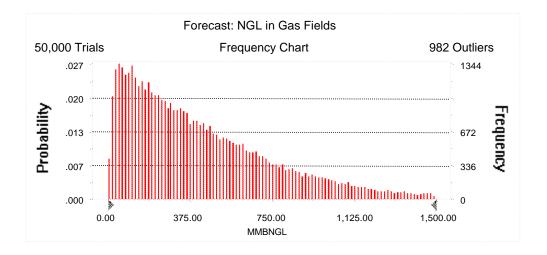
<u>Percentile</u>	<u>BCFG</u>
100%	61.91
95%	1,003.74
90%	1,677.66
85%	2,380.63
80%	3,084.82
75%	3,847.85
70%	4,638.79
65%	5,457.52
60%	6,328.81
55%	7,261.55
50%	8,253.72
45%	9,271.43
40%	10,385.21
35%	11,631.95
30%	12,974.09
25%	14,529.28
20%	16,334.92
15%	18,481.97
10%	21,333.97
5%	26,150.74
0%	71,217.75

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 1,500.00 MMBNGL Entire range is from 2.12 to 3,905.19 MMBNGL After 50,000 trials, the standard error of the mean is 1.69

Statistics:	<u>Value</u>
Trials	50000
Mean	449.03
Median	352.07
Mode	
Standard Deviation	378.39
Variance	143,176.49
Skewness	1.52
Kurtosis	6.33
Coefficient of Variability	0.84
Range Minimum	2.12
Range Maximum	3,905.19
Range Width	3,903.07
Mean Standard Error	1.69



Forecast: NGL in Gas Fields (cont'd)

Percentiles:

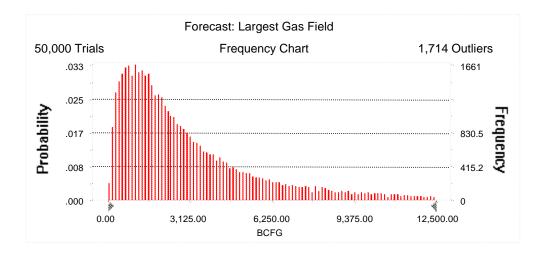
<u>Percentile</u>	MMBNGL
100%	2.12
95%	42.61
90%	70.65
85%	100.38
80%	130.13
75%	162.43
70%	195.54
65%	231.20
60%	269.05
55%	309.02
50%	352.07
45%	397.73
40%	447.01
35%	500.73
30%	563.16
25%	630.74
20%	712.95
15%	817.20
10%	959.45
5%	1,186.25
0%	3,905.19

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 12,500.00 BCFG Entire range is from 61.91 to 20,996.54 BCFG After 50,000 trials, the standard error of the mean is 15.45

Statistics:	<u>Value</u>
Trials	50000
Mean	3,429.85
Median	2,290.55
Mode	
Standard Deviation	3,454.04
Variance 11,5	930,371.02
Skewness	2.13
Kurtosis	8.22
Coefficient of Variability	1.01
Range Minimum	61.91
Range Maximum	20,996.54
Range Width	20,934.63
Mean Standard Error	15.45



Forecast: Largest Gas Field (cont'd)

Percentiles:

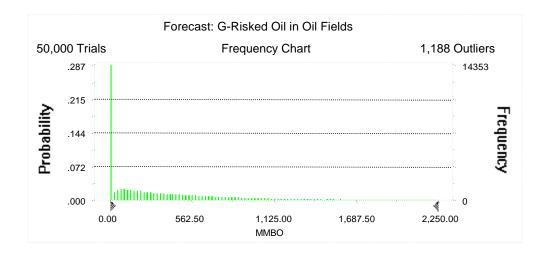
<u>Percentile</u>	<u>BCFG</u>
100%	61.91
95%	380.13
90%	588.50
85%	778.94
80%	975.49
75%	1,170.49
70%	1,368.44
65%	1,567.04
60%	1,788.54
55%	2,028.11
50%	2,290.55
45%	2,588.48
40%	2,927.23
35%	3,310.81
30%	3,786.87
25%	4,358.04
20%	5,105.73
15%	6,142.05
10%	7,782.23
5%	10,795.21
0%	20,996.54

Forecast: G-Risked Oil in Oil Fields

Summary:

Display range is from 0.00 to 2,250.00 MMBO Entire range is from 0.00 to 6,227.44 MMBO After 50,000 trials, the standard error of the mean is 2.80

Statistics:	<u>Value</u>
Trials	50000
Mean	467.59
Median	251.63
Mode	0.00
Standard Deviation	626.36
Variance	392,324.44
Skewness	2.43
Kurtosis	11.43
Coefficient of Variability	1.34
Range Minimum	0.00
Range Maximum	6,227.44
Range Width	6,227.44
Mean Standard Error	2.80



Forecast: G-Risked Oil in Oil Fields (cont'd)

Percentiles:

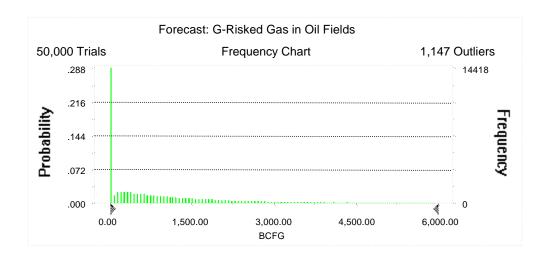
<u>Percentile</u>	<u>MMBO</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	39.98
65%	89.87
60%	138.83
55%	193.15
50%	251.63
45%	316.52
40%	387.09
35%	468.40
30%	560.77
25%	665.76
20%	800.35
15%	976.56
10%	1,232.80
5%	1,690.15
0%	6,227.44

Forecast: G-Risked Gas in Oil Fields

Summary:

Display range is from 0.00 to 6,000.00 BCFG Entire range is from 0.00 to 20,551.43 BCFG After 50,000 trials, the standard error of the mean is 7.50

Statistics:	<u>Value</u>
Trials	50000
Mean	1,213.77
Median	636.01
Mode	0.00
Standard Deviation	1,676.65
Variance	2,811,139.97
Skewness	2.67
Kurtosis	13.73
Coefficient of Variability	1.38
Range Minimum	0.00
Range Maximum	20,551.43
Range Width	20,551.43
Mean Standard Error	7.50



Forecast: G-Risked Gas in Oil Fields (cont'd)

Percentiles:

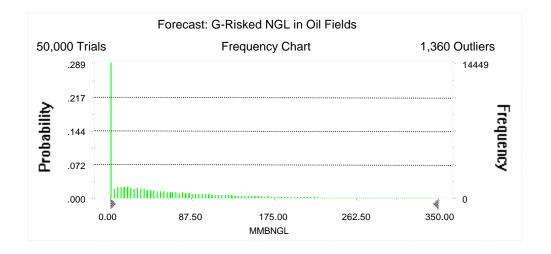
Percentile	BCFG
100%	0.00
95%	0.00
	0.00
90%	
85%	0.00
80%	0.00
75%	0.00
70%	99.29
65%	224.91
60%	346.99
55%	482.44
50%	636.01
45%	794.83
40%	974.96
35%	1,181.01
30%	1,427.35
25%	1,703.67
20%	2,053.28
15%	2,522.60
10%	3,206.14
5%	4,473.79
0%	20,551.43

Forecast: G-Risked NGL in Oil Fields

Summary:

Display range is from 0.00 to 350.00 MMBNGL Entire range is from 0.00 to 1,503.19 MMBNGL After 50,000 trials, the standard error of the mean is 0.47

Statistics:	<u>Value</u>
Trials	50000
Mean	73.00
Median	36.65
Mode	0.00
Standard Deviation	104.40
Variance	10,899.60
Skewness	2.94
Kurtosis	16.64
Coefficient of Variability	1.43
Range Minimum	0.00
Range Maximum	1,503.19
Range Width	1,503.19
Mean Standard Error	0.47



Forecast: G-Risked NGL in Oil Fields (cont'd)

Percentiles:

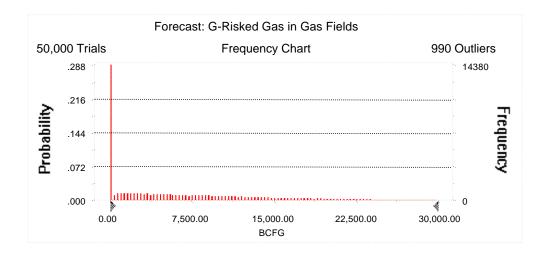
MMBNGL
0.00
0.00
0.00
0.00
0.00
0.00
5.62
12.87
20.06
28.09
36.65
46.42
57.12
69.54
83.53
100.61
121.82
150.34
192.79
271.31
1,503.19

Forecast: G-Risked Gas in Gas Fields

Summary:

Display range is from 0.00 to 30,000.00 BCFG Entire range is from 0.00 to 71,217.75 BCFG After 50,000 trials, the standard error of the mean is 37.20

Statistics:	<u>Value</u>
Trials	50000
Mean	7,331.54
Median	4,691.66
Mode	0.00
Standard Deviation	8,318.41
Variance	69,195,867.34
Skewness	1.44
Kurtosis	5.35
Coefficient of Variability	1.13
Range Minimum	0.00
Range Maximum	71,217.75
Range Width	71,217.75
Mean Standard Error	37.20



Forecast: G-Risked Gas in Gas Fields (cont'd)

Percentiles:

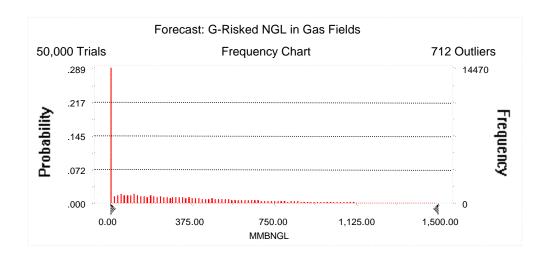
<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	628.62
65%	1,571.20
60%	2,549.48
55%	3,562.58
50%	4,691.66
45%	5,868.31
40%	7,138.96
35%	8,527.21
30%	10,009.29
25%	11,710.75
20%	13,670.64
15%	16,063.72
10%	19,095.25
5%	23,873.06
0%	71,217.75

Forecast: G-Risked NGL in Gas Fields

Summary:

Display range is from 0.00 to 1,500.00 MMBNGL Entire range is from 0.00 to 3,905.19 MMBNGL After 50,000 trials, the standard error of the mean is 1.70

Statistics:	<u>Value</u>
Trials	50000
Mean	323.07
Median	197.91
Mode	0.00
Standard Deviation	379.89
Variance	144,313.81
Skewness	1.64
Kurtosis	6.51
Coefficient of Variability	1.18
Range Minimum	0.00
Range Maximum	3,905.19
Range Width	3,905.19
Mean Standard Error	1.70



Forecast: G-Risked NGL in Gas Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	25.78
65%	66.58
60%	107.62
55%	150.83
50%	197.91
45%	248.74
40%	304.30
35%	362.96
30%	429.99
25%	505.52
20%	593.91
15%	700.91
10%	849.27
5%	1,080.72
0%	3,905.19

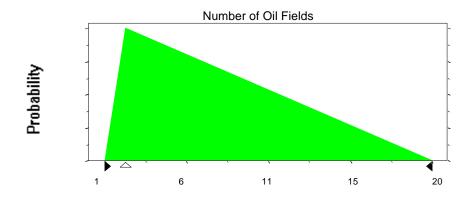
Assumptions

Assumption: Number of Oil Fields

Triangular	distribution	with	parameters:
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Minimum	1
Likeliest	2
Maximum	20

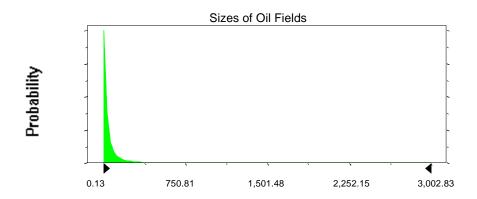
Selected range is from 1 to 20 Mean value in simulation was 8



Assumption: Sizes of Oil Fields

Lognormal distribution with para	ameters:	Shifted parameters
Mean	80.73	90.73
Standard Deviation	315.68	315.68
Selected range is from 0.00 to 3	,490.00	10.00 to 3,500.00
Mean value in simulation was 73.86		83.86

Assumption: Sizes of Oil Fields (cont'd)



Assumption: GOR in Oil Fields

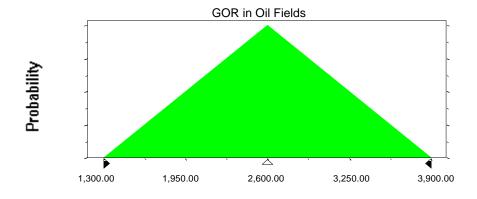
Triangular distribution with parameters:

 Minimum
 1,300.00

 Likeliest
 2,600.00

 Maximum
 3,900.00

Selected range is from 1,300.00 to 3,900.00 Mean value in simulation was 2,599.49

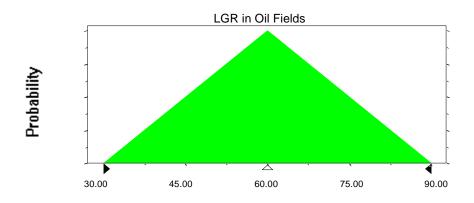


Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	30.00
Likeliest	60.00
Maximum	90.00

Selected range is from 30.00 to 90.00 Mean value in simulation was 60.11



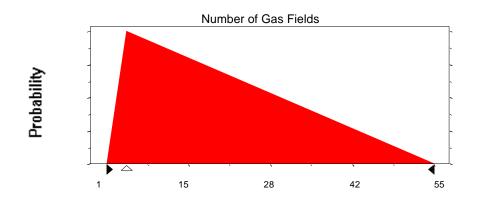
Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	4
Maximum	55

Selected range is from 1 to 55 Mean value in simulation was 20

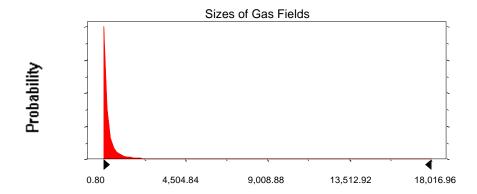
Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Mean value in simulation was 446.70

Lognormal distribution with parameters:		Shifted parameters
Mean	484.36	544.36
Standard Deviation	1,894.06	1,894.06
Selected range is from 0.00 to 2	20,940.00	60.00 to 21,000.00



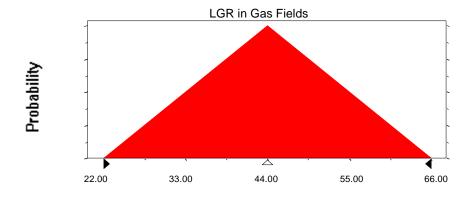
506.7

Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	22.00
Likeliest	44.00
Maximum	66.00

Selected range is from 22.00 to 66.00 Mean value in simulation was 44.03



End of Assumptions

Simulation started on 11/17/99 at 17:04:52 Simulation stopped on 11/17/99 at 17:28:26